==========
Sequence Listing was accepted.
If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).
Reviewer: Anne Corrigan
Timestamp: [year=2009; month=6; day=16; hr=8; min=22; sec=19; ms=360;]
==========

Validated By CRFValidator v 1.0.3

Application No: 10574904 Version No: 1.0

Input Set:

Output Set:

Started: 2009-06-09 14:44:47.915
Finished: 2009-06-09 14:44:50.781
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 866 ms
Total Warnings: 40
Total Errors: 0
No. of SeqIDs Defined: 40
Actual SeqID Count: 40

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2009-06-09 14:44:47.915
Finished: 2009-06-09 14:44:50.781
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 866 ms
Total Warnings: 40
Total Errors: 0
No. of SeqIDs Defined: 40
Actual SeqID Count: 40

Error code	Error Description

This error has occured more than 20 times, will not be displayed

SEQUENCE LISTING

<110> YASUMOTO, Masazumi
SHIMADA, Masamitsu
HINO, Fumitsugu
KATO, Ikunoshin

<120> COMPOSITION FOR INHIBITING FUNCTION OF HUMAN FLT3

<130> 1422-0714PUS1

<140> 10574904
<141> 2009-06-09

<150> PCT/JP2004/014851
<151> 2004-10-07

<150> JP2003-350253
<151> 2003-10-09

<160> 40

<170> PatentIn version 3.5

<210> 1
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: A partial cDNA sequence of ATP-binding site

<400> 1
aaggtactag gatcaggtgc t 21

<210> 2
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Designated as SEQ1-S

<220>
<221> misc_feature
<222> (1)..(19)
<223> ribonucleotides

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxyribonucleotides

<400> 2
gguacuagga ucaggugcut t 21

<210> 3
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Designated as SEQ1-AS

<220>
<221> misc_feature
<222> (1)..(19)
<223> ribonucleotides

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxyribonucleotides

<400> 3
agcaccugau ccuaguacct t 21

<210> 4
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: A partial cDNA sequence of TK domain

<400> 4
aacaggagtc tcaatccagg t 21

<210> 5
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Designated as SEQ2-S

<220>
<221> misc_feature
<222> (1)..(19)
<223> ribonucleotides

<220>
<221> misc_feature

<222> (20)..(21)
<223> deoxyribonucleotides

<400> 5
caggagucuc aauccaggut t 21

<210> 6
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Designated as SEQ2-AS

<220>
<221> misc_feature
<222> (1)..(19)
<223> ribonucleotides

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxyribonucleotides

<400> 6
accuggauug agacuccugt t 21

<210> 7
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: A partial cDNA sequence of FLT3/ITD domain

<400> 7
aatatgaata tgatctcaaa t 21

<210> 8
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Designated as SEQ3-S

<220>
<221> misc_feature
<222> (1)..(19)

<223> ribonucleotides

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxyribonucleotides

<400> 8
uaugaauaug aucucaaaut t 21

<210> 9
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Designated as SEQ3-AS

<220>
<221> misc_feature
<222> (1)..(19)
<223> ribonucleotides

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxyribonucleotides

<400> 9
auuugagauc auauucauat t 21

<210> 10
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: A partial cDNA sequence of bcr/abl
chimera domain

<400> 10
aagcagagtt caaaagcccu u 21

<210> 11
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<220>
<220>
<221> misc_feature
<222> (1)..(19)
<223> ribonucleotides

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxyribonucleotides

<400> 11
gcagaguuca aaagcccuut t 21

<210> 12
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> misc_feature
<222> (1)..(19)
<223> ribonucleotides

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxyribonucleotides

<400> 12
aagggcuuuu gaacucugct t 21

<210> 13
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PCR primer FLT11F for amplifying a gene encoding FLT3

<400> 13
gcaatttagg tatgaaagcc agc 23

<210> 14
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PCR primer FLT12R for amplifying a gene encoding FLT3

<400> 14
ctttcagcat tttgacggca acc 23

<210> 15
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PCR primer G1 for amplifying a gene encoding GAPDH

<400> 15
caacagcctc aagatcatca gc 22

<210> 16
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PCR primer G2 for amplifying a gene encoding GAPDH

<400> 16
ttctagacgg caggtcaggt c 21

<210> 17
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Expression cassette FLT3SI1F for expressing siRNA for ATP-binding domain

<220>
<221> misc_feature
<222> (1)..(5)
<223> BamHI restriction site

<220>
<221> misc_feature
<222> (26)..(34)
<223> loop site

<220>
<221> misc_feature

<222> (54)..(59)
<223> RNA polymerase III terminator

<400> 17
gatcccggta ctaggatcag gtgctttcaa gagaagcacc tgatcctagt acctttttg 60

gaaa 64

<210> 18
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Expression cassette FLT3SI1R for
expressing siRNA for ATP-binding domain

<220>
<221> misc_feature
<222> (1)..(5)
<223> HindIII restriction site

<220>
<221> misc_feature
<222> (10)..(15)
<223> RNA polymerase III terminator site

<220>
<221> misc_feature
<222> (35)..(43)
<223> loop

<400> 18
agcttttcca aaaaaggtac taggatcagg tgcttctctt gaaagcacct gatcctagta 60

ccgg 64

<210> 19
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Expression cassette FLT3CON1F for
expressing control sequence

<220>
<221> misc_feature
<222> (1)..(5)
<223> BamHI restriction site

<220>
<221> misc_feature

<222> (26)..(34)
<223> loop site

<220>
<221> misc_feature
<222> (54)..(59)
<223> RNA polymerase III terminator site

<400> 19
gatcccggag tcgtagctgc agtatttcaa gagaatactg cagctacgac tccttttttg 60

gaaa 64

<210> 20
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Expression cassette FLT3CON1R for
expressing control sequence

<220>
<221> misc_feature
<222> (1)..(5)
<223> HindIII restriction site

<220>
<221> misc_feature
<222> (10)..(15)
<223> RNA polymerase III terminator site

<220>
<221> misc_feature
<222> (35)..(43)
<223> loop

<400> 20
agcttttcca aaaaaggagt cgtagctgca gtattctctt gaaatactgc agctacgact 60

ccgg 64

<210> 21
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Expression cassette FLT3SI3F for
expressing siRNA for FLT3/ITD domain

<220>
<221> misc_feature

<222> (1)..(5)
<223> BamHI restriction site

<220>
<221> misc_feature
<222> (26)..(34)
<223> loop site

<220>
<221> misc_feature
<222> (54)..(59)
<223> RNA polymerase III terminator

<400> 21
gatccctatg aatatgatct caaatttcaa gagaatttga gatcatattc atatttttg 60

gaaa 64

<210> 22
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Expression cassette FLT3SI3R for expressing siRNA for FLT3/ITD domain

<220>
<221> misc_feature
<222> (1)..(5)
<223> HindIII restriction site

<220>
<221> misc_feature
<222> (10)..(15)
<223> RNA polymerase III terminator site

<220>
<221> misc_feature
<222> (35)..(43)
<223> loop

<400> 22
agcttttcca aaaaatatga atatgatctc aaattctctt gaaatttgag atcatattca 60

tagg 64

<210> 23
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Expression cassette FLT3CON3F for

expressing control sequence

<220>
<221> misc_feature
<222> (1)..(5)
<223> BamHI restriction site

<220>
<221> misc_feature
<222> (26)..(34)
<223> loop site

<220>
<221> misc_feature
<222> (54)..(59)
<223> RNA polymerase III terminator site

<400> 23
gatcccaata atttgcttca aagatttcaa gagaatcttt gaagcaaatt atttttttg 60

gaaa 64

<210> 24
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Expression cassette FLT3CON3R for
expressing control sequence

<220>
<221> misc_feature
<222> (1)..(5)
<223> HindIII restriction site

<220>
<221> misc_feature
<222> (10)..(15)
<223> RNA polymerase III terminator site

<220>
<221> misc_feature
<222> (35)..(43)
<223> loop

<400> 24
agcttttcca aaaaaaataa tttgcttcaa agattctctt gaaatctttg aagcaaatta 60

ttgg 64

<210> 25
<211> 20

<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: 5' sequencing primer

<400> 25
taatacgact cactataggg 20

<210> 26
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: 3' sequencing primer

<400> 26
aggcgattaa gttgggta 18

<210> 27
<211> 144
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Juxtamembrane domain

<400> 27
tgtcacaagt acaaaaagca atttaggtat gaaagccagc tacagatggt acaggtgacc 60

ggctcctcag ataatgagta cttctacgtt gatttcagag aatatgaata tgatctcaaa 120

tgggagtttc caagagaaaa ttta 144

<210> 28
<211> 471
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Tyrosine kinase domain

<400> 28
acgcaacagc ttatggaatt agcaaaacag gagtctcaat ccaggttgcc gtcaaaatgc 60

tgaaagaaaa agcagacagc tctgaaagag aggcactcat gtcagaactc aagatgatga 120

cccagctggg aagccacgag aatattgtga acctgctggg ggcgtgcaca ctgtcaggac 180

caatttactt gatttttgaa tactgttgct atggtgatct tctcaactat ctaagaagta 240

aaagagaaaa atttcacagg acttggacag agattttcaa ggaacacaat ttcagttttt 300

accccacttt ccaatcacat ccaaattcca gcatgcctgg ttcaagagaa gttcagatac 360

acccggactc ggatcaaatc tcagggcttc atgggaattc atttcactct gaagatgaaa 420

ttgaatatga aaaccaaaaa aggctggaag aagaggagga cttgaatgtg c 471

<210> 29
<211> 517
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: ATP-binding domain

<400> 29
gagtttggga aggtactagg atcaggtgct tttggaaaag tgatgaacgc aacagcttat 60

ggaattagca aaacaggagt ctcaatccag gttgccgtca aaatgctgaa agaaaaagca 120

gacagctctg aaagagaggc actcatgtca gaactcaaga tgatgaccca gctgggaagc 180

cacgagaata ttgtgaacct gctgggggcg tgcacactgt caggaccaat ttacttgatt 240

tttgaatact gttgctatgg tgatcttctc aactatctaa gaagtaaaag agaaaaattt 300

cacaggactt ggacagagat tttcaaggaa cacaatttca gtttttaccc cactttccaa 360

tcacatccaa attccagcat gcctggttca agagaagttc agatacaccc ggactcggat 420

caaatctcag ggcttcatgg gaattcattt cactctgaag atgaaattga atatgaaaac 480

caaaaaaggc tggaagaaga ggaggacttg aatgtgc 517

<210> 30
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> misc_feature
<222> (1)..(19)
<223> ribonucleotides

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxyribonucleotides

<400> 30
gguuauguac aggaacgcat t 21

<210> 31
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> misc_feature
<222> (1)..(19)
<223> ribonucleotides

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxyribonucleotides

<400> 31
ugcguuccug uacauaacct t 21

<210> 32
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: A partial cDNA sequence of ATP-binding domain

<400> 32
ggtactagga tcaggtgct 19

<210> 33
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: siRNA

<400> 33
gguacuagga ucaggugcu 19

<210> 34
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: siRNA

<400> 34
agcaccugau ccuaguacc 19

<210> 35
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: A partial cDNA sequence of TK domain

<400> 35
caggagtctc aatccaggt 19

<210> 36
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: siRNA

<400> 36
caggagucuc aauccaggu 19

<210> 37
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: siRNA

<400> 37
accuggauug agacuccug 19

<210> 38
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: A partial cDNA sequence of FLT3/ITD domain

<400> 38
tatgaatatg atctcaaat 19

<210> 39
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: siRNA

<400> 39
uaugaauaug aucucaaau 19

<210> 40
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: siRNA

<400> 40
auuugagauc auauucaua 19